HT 1250 Introduction

Hot Zone Radio

The Motorola HT1250 Portable radios are designed for use on VHF conventional operation with, ruggedness, and versatility.

HT1250 radios will operate in hostile environments

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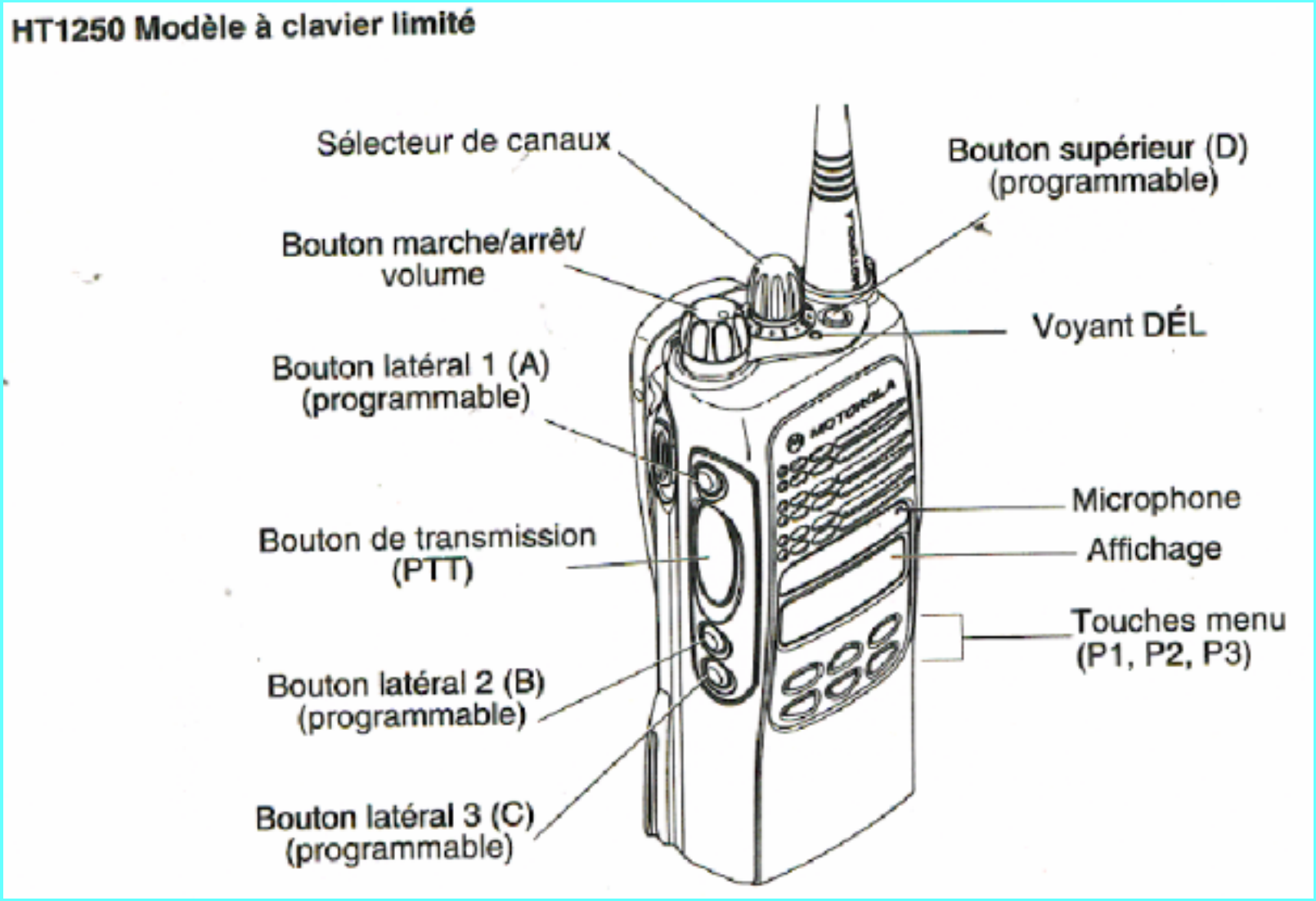

HT1250 Includes:

- Ni-MH High Capacity Battery
- 2 1/2-Inch Belt Clip
- Antenna
- Single Unit Rapid Rate Intelli-Charger
- Operator’s Manual
- Two Year Warranty- Parts and Labor
- 16 Conventional Channels
- Three types of Scan: System, All Group and Auto Group
- Home Channel Revert / Continuous Rotary
- User-Defined Scan Lists
- Conventional Talkaround

Programmable Button Features Available

- System Scan
- All Group Scan
- Nuisance Channel Delete
- Telephone Interconnect
- Speed Dial
- Home Channel Revert
- Radio (MDC) Call
- Call Light
- Conventional Repeater Talkaround
- Squelch Levels
- Option Board Operation
- Keypad Lock
- Battery Gauge
- Emergency Siren
- Volume Set
- High/Low Power

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HT Series Accessories

Batteries

Battery Chargers

Audio Accessories

Carrying Cases

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HT1250 radio features

· 14-character alphanumeric display, with icons.

· **Audio and LED Indications** alert users of the radio's changing status.

· **6 Programmable Instant Access Feature Buttons.** for one-push

button access to commonly used features, such as Home Channel

Revert, Scan, Telephone Interconnect, and Radio Call List.

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Controls on Top of Radio

· **Power On/Off and Volume.** Turns the radio on or off and adjusts the volume to a comfortable listening level.

· **Zone/Channel Select.** Rotate the **Zone/Channel Select** knob to the desired position to access conventional channels. The selected mode or channel will be shown in the LCD Display. The HT1250 Portable radio supports 16 conventional channels.

· **LED Indicator.** Indicates status of the battery, power-up, scan, and receipt of a selective call.

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· **Top Programmable Button.** This button can be programmed to activate a specific function. All programmable buttons can be programmed to activate the following functions with the press of a single button:

Monitor (Conventional mode). Allows user to monitor the channel for activity when PL is activated.

Home Channel Revert (Conventional Mode). Allows the user to instantly access a favorite talkgroup/home channel.

Scan. The Scan function allows users to search for, lock onto, and monitor activity on multiple channels. Two types of scan can be programmed into a feature button: System Scan and All Group Scan.

Menu Navigation. A jump to a specific topic on the menu (i.e., Call Alert).

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Controls on Front of Radio

14-Character Alphanumeric Display. Identifies conventional channels using easily understandable aliases.

Menu Select. One of the menu keys used to scroll through menu selectable functions when in menu mode. The **Menu Select** button is used to enter the Menu Mode and to make menu selections.

Talkgroup Select/Up Arrow and Talkgroup Select/Down Arrow. Two of the menu keys used to scroll through menu selectable functions when in menu mode. The

Left Arrow (P1) and Right Arrow (P2). Two of the menu keys used to scroll through menu selectable functions when in menu mode. These button can also be programmed to activate a specific function. All programmable buttons can be programmed to activate the same functions as the top programmable button described previously.

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Controls on Front of Radio, continued

Menu Exit. One of the menu keys used to scroll through menu selectable functions when in menu mode. The **Menu Exit** button is used to move to the previous Menu Selection (short press), or to exit the Menu Mode (long press).

Antenna. A variety of antennas can be attached to the radio to suit different operating conditions.

Speaker. Speaker used to listen to calls. The function of the speaker can be disabled by attaching an optional earpiece using the accessory plug on the right side of the radio.

Microphone. Used to speak into when placing calls.

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Controls on Left Side of Radio

Push-To-Talk. The **Push-to-Talk** (PTT) switch is located on the side of the radio for easy operation while holding the radio. Pressing the

PTT switch causes the radio to begin transmitting.

Side Programmable Buttons. Three side programmable buttons that can be programmed for specific features. These buttons can be programmed as a short and/or long press to choose from among the same features as for the top programmable button described previously.

Battery Release. Slide this control to release the battery from the radio.

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Controls on Back of Radio

Battery and Belt Clip. Battery used to power the radio. A variety of batteries are available to suit different operating conditions. Batteries have removable clips that can be used to securely attach the radio to a belt or other object.

Controls on Right Side of Radio

Accessory Plug. Used to connect a variety of optional equipment to the radio.

Battery Release. Slide this control to release the battery from the radio.

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Indicator Icons

The top two LCD rows of the HT1250·LS screen display icons that indicate menu and radio status information. The following are descriptions of each of the icons on the display.

Companding The companding feature is activated. When in narrow band, this feature improves audio quality.

Power Level

Low Power (**L**) or High Power (**H**) is activated.

Monitor

The selected channel is being monitored.

Phone

The Phone mode is selected.

Emergency

An Emergency Alert is being sent.

Call Received

A Selective Call or a Call Alert has been received.

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Indicator Icons, continued

Sca

Indicates that the Scan feature has been activated. This icon also indicates whether this activity on a non-priority channel. A flashing dot next to the arrow indicates that there is some activity on a Priority 1 channel. A steady dot next to the arrow indicates that there is some activity on a Priority 2 channel.

Talkaround

The radio is not transmitting through a repeater.

Programming Mode

A Program List is being edited.

Keypad Lock

The keypad is locked.

Signal Strength

Indicates the strength of the received signal. The more bars, the stronger the signal.

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Indicator Icons, continued

Option Board

An Option Board is activated.

Battery Level

The number of bars (0-4) shown indicates the remaining charge in the

installed battery.

Not Assigned

Not currently assigned.

Clock

Shows the time of day in 12-hour or 24-hour mode.

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The Motorola HT1250 portable radio produces tones to indicate various conditions of the radio.

These tones can be divided into the following categories:

· Alert Tones

· Button Tones

Alert Tones

The conditions that produce an Alert Tones by a Motorola HT1250 Portable radio:

· Successful Power-Up

· Valid (Good) Button Press

· Invalid Button Press

· Busy System/Channel

· Out of Range

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Button Tones

In addition to having visual indicators, some of the programmable buttons use Button Tones to indicate one of two modes.

The functions that produce button tones are listed below.

· Talk Permit

· Start Scan

· Stop Scan

· Low Power Level Selected

· High Power Level Selected

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Menu Navigation

The Motorola HT1250 radio has a menu system for accessing and initiating functions.

Selective Call

Scan

Home Channel Revert

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SCANNING

There are three types of scan available in the HT1250 radios. System Scan can be st arted or stopped by pressing the preprogrammed feature button.

System Scan can also be implemented using the Menu.

To select System Scan from the menu, do the following:

1. Press the Menu/Select key to enter the **Menu** mode.

2. Press the Up or Down Arrow until **System Scan** is shown in the display.

3. Press the Menu/Select key to select the **System Scan** mode.

4. Press the Up or Down Arrow until **Sys Scan On?** is shown in the display.

5. Press the Menu/Select key to confirm your selection.

6. To exit the System Scan function. Press the Up or Down Arrow until

Sys Scan Off? Is shown in the display.

7. Press the Menu/Select key to confirm your selection.

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Home Channel Revert

Home Channel revert lets you automatically return to a preferred channel or talk-group.

Home Channel Revert can be activated by pressing the preprogrammed

feature button designated for Home Channel Revert.

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Troubleshooting Checklist

A guideline for identifying user level problems and their associated solutions.

The column on the left describes to symptom that the radio user might be experiencing.

The middle column describes the probable cause of the problem, and the last column describes the possible solution. If the solutions for a given symptom or problem does not work, the radio repair is beyond EPAs capability to repair in the field.

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Troubleshooting

Symptom	Probable Cause	Solution
Radio is dead.	No power to radio.	Check battery. If OK, radio requires Level 2 service.
Low pitched continuous tone when radio is turned on.	Internal defect.	Press and release PTT to stop tone. level 2 service is required.
Low pitched short tone when radio is turned on.	Internal defect.	Radio may not function properly. Level 2 service is required.
Low pitched continuous tone immediately after pressing the PTT.	Transmission prohibited.	Contact your system operator to confirm trunked or conventional system access.
Low pitched repetitive short tones immediately after pressing the PTT.	Channel is busy	Wait for channel to clear. Try transmitting again later.
Radio will not talk to other radios in the system	Radios may be programmed for different frequencies or groups.	Contact system operator to verify frequencies and groups.
Constant static on conventional channels.	Interference from electronic devices (computers, etc.)	Check with system operator to enable code squelch which screens out this type of interference.

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Environmental Specifications	
Operating Temperature	-30 to +60° C
Storage Temperature	-55 to +85° C
Humidity	95% RH @ 8 Hr.
ESD	IEC 801-2 KV
Water Intrusion	IP54

Factory Mutual Approvals

Factory Mutual has given the HT•1250 an intrinsically safe rating for use in classes I, II, III, Division 1, Groups C,D,E,F and G, as well as non-incendentive use in

Class 1, Division 2, Groups A, B, C and D on models ordered with the Factory Mutual option.

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Hot Zone Radio Questions?